

Fig. 1

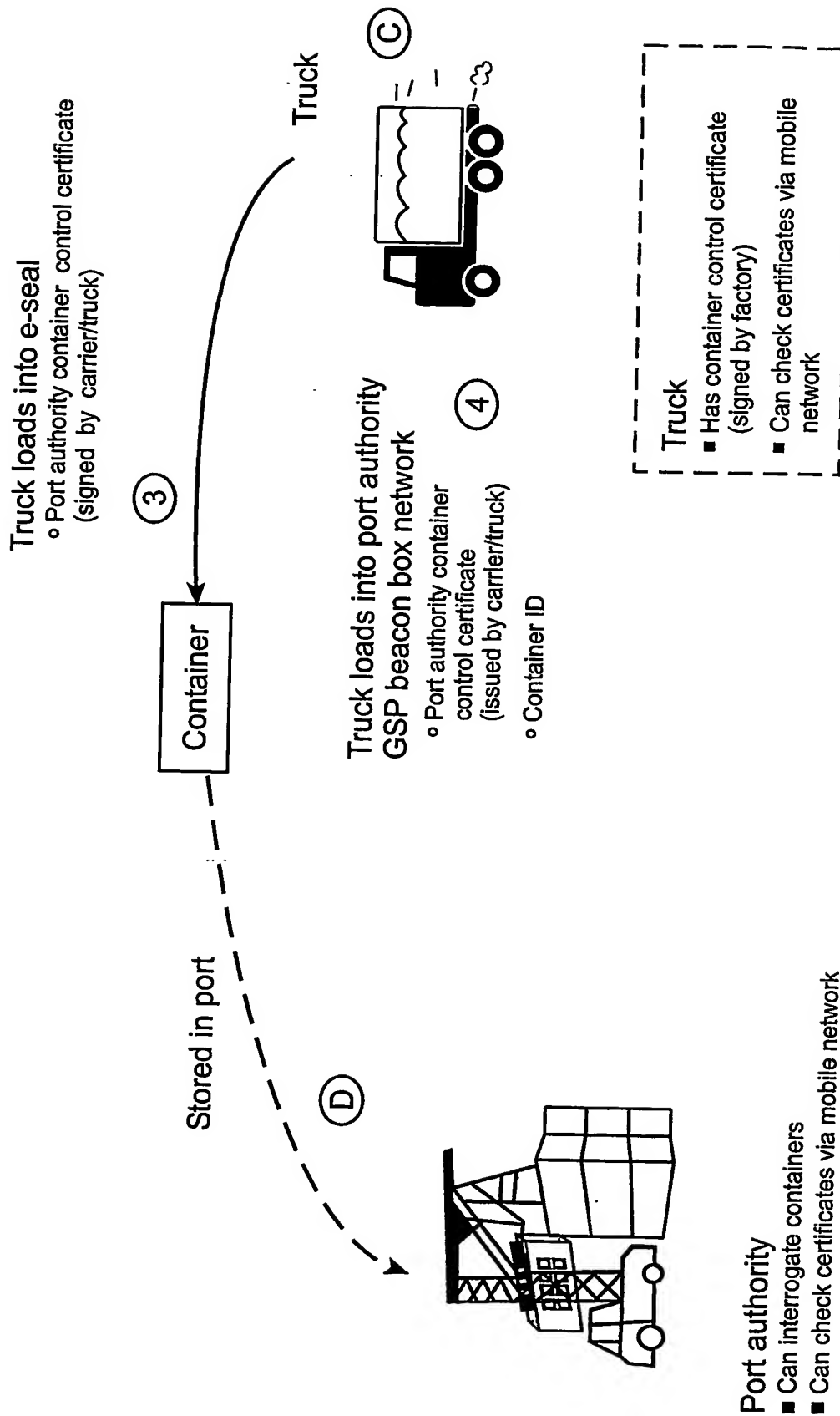


Fig. 2

Certificate Authority

$[p_{U, R}^{CA}]$
 $P_R^{CA}(CP, P_U^{CP})$ $P_R^{CA}(Su, P_U^{Su})$ $P_R^{CA}(CP, P_U^{CP})$ $P_R^{CA}(C2, P_U^{C2})$

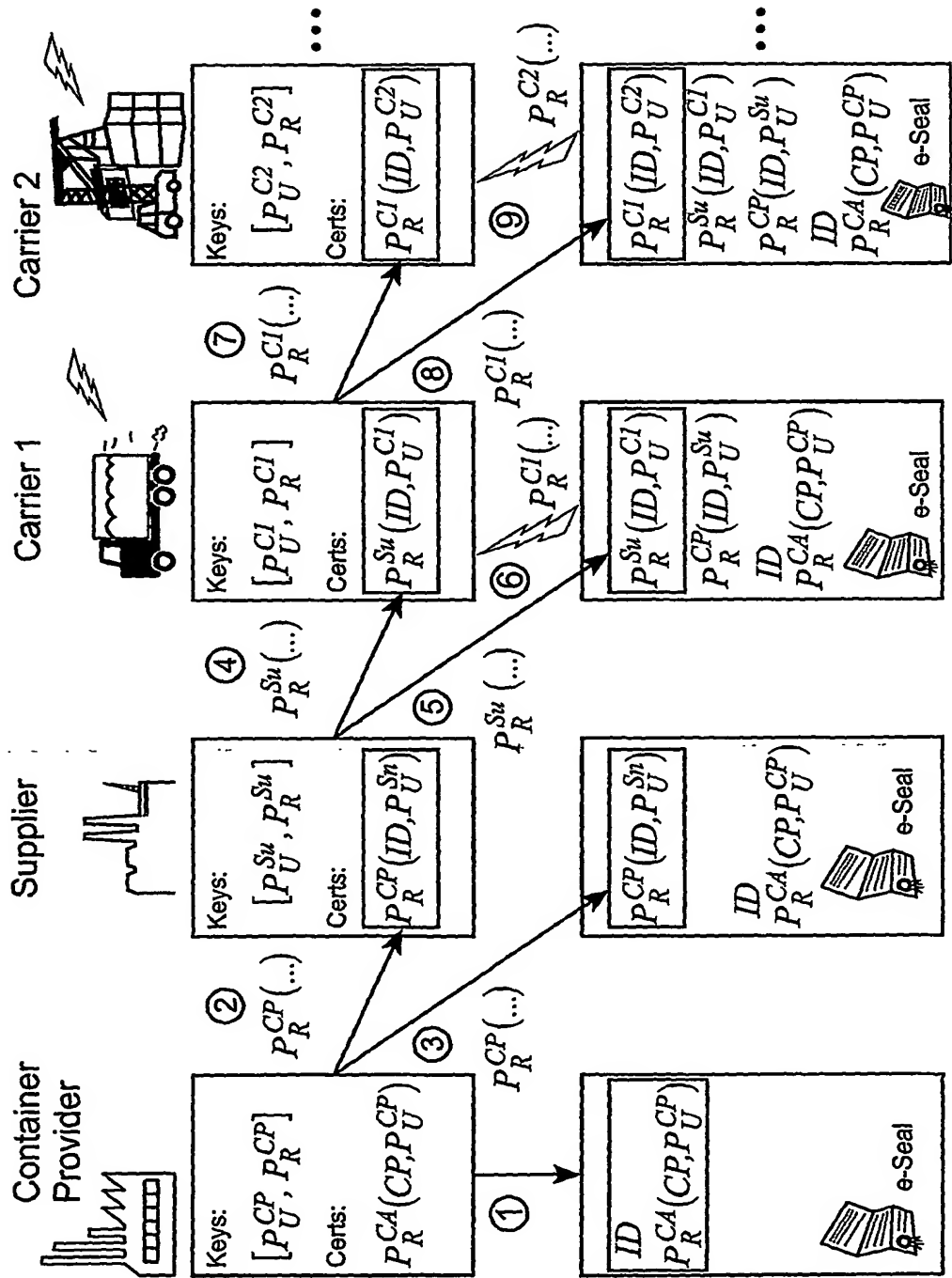


Fig. 3

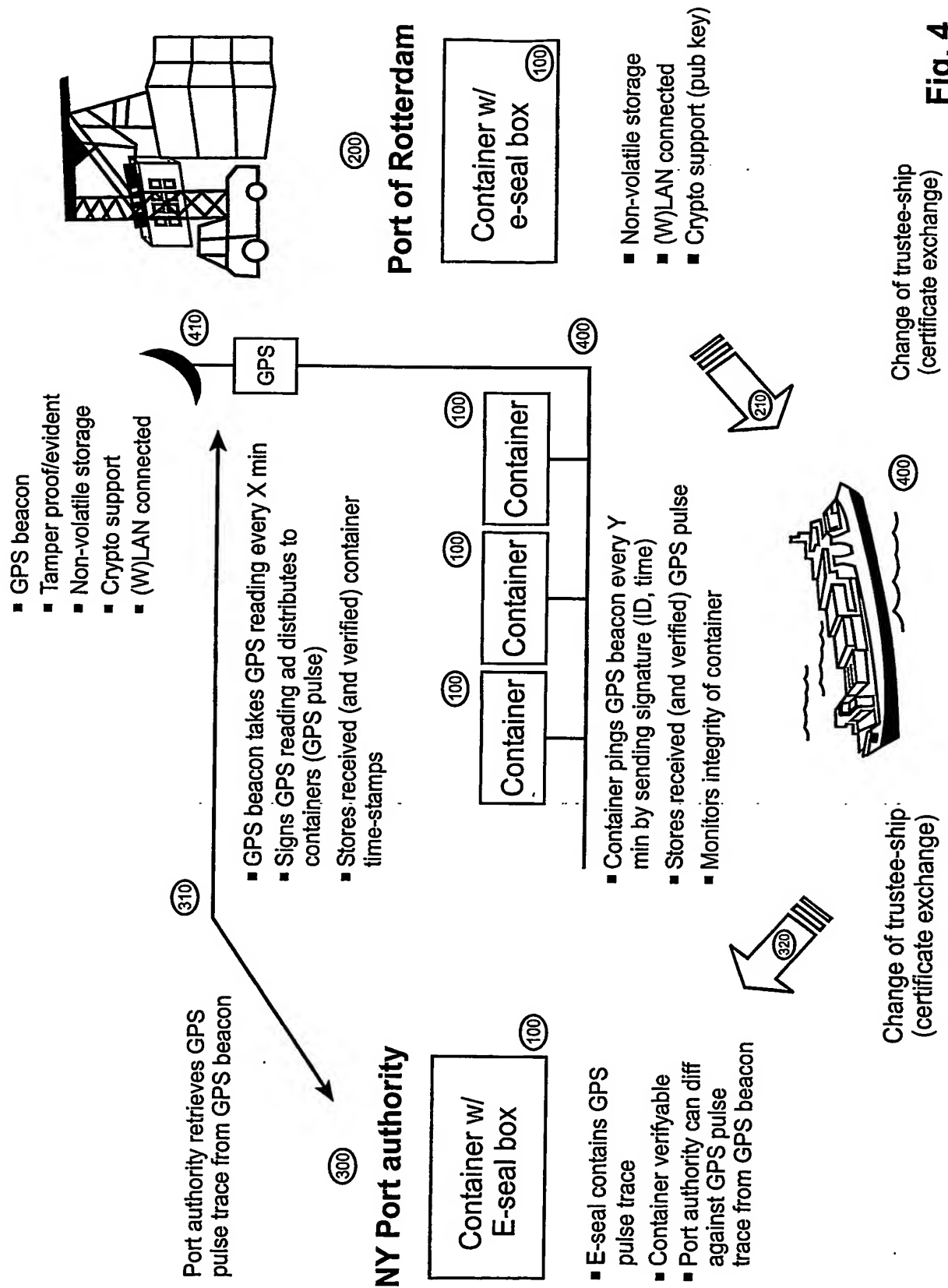


Fig. 4

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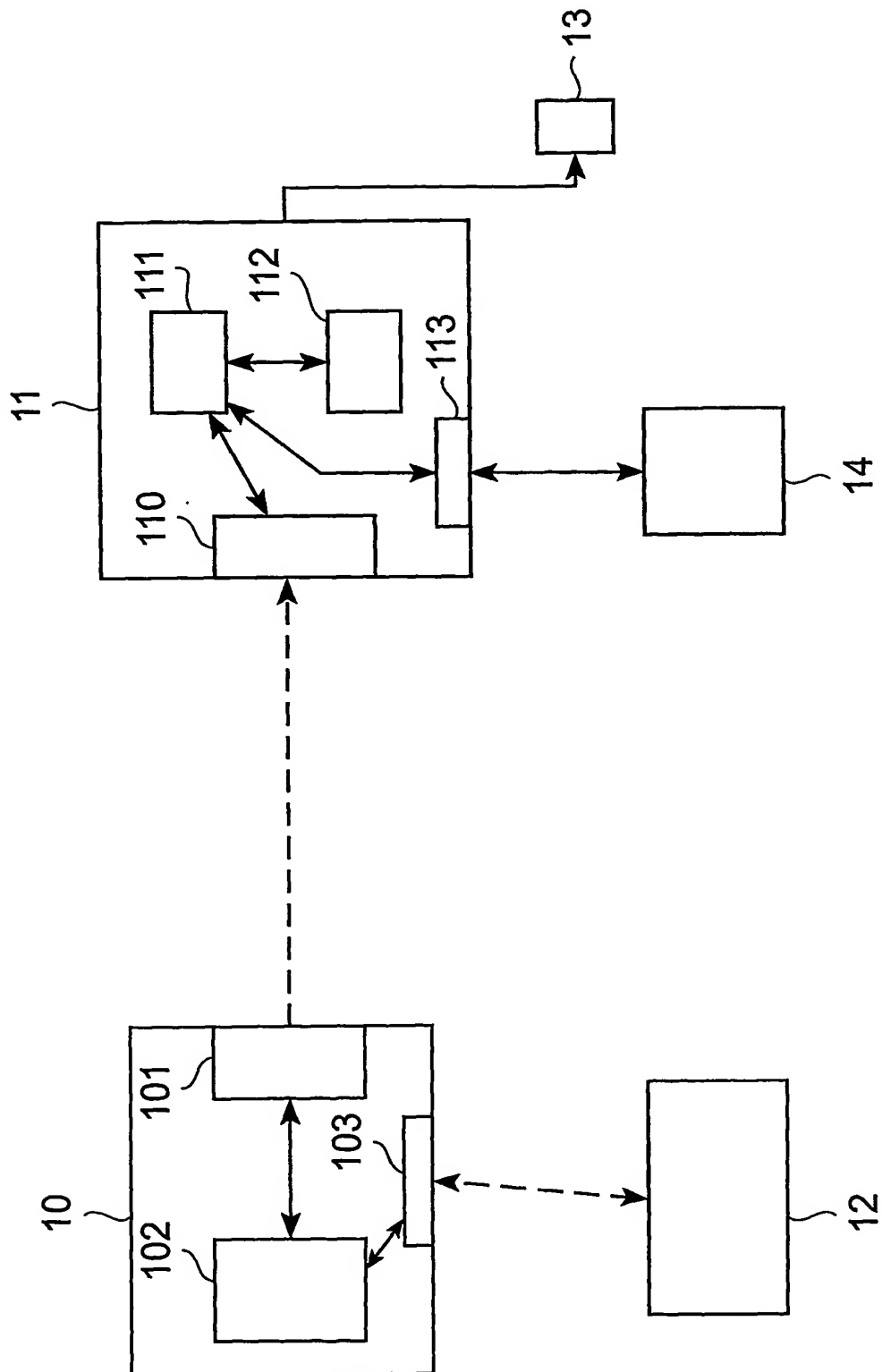


Fig. 5